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UNIVERSITY OF MANITOBA [CA/CA]; 753 McDermot Avenue, Winnipeg, Manitoba R3T 2N2 (CA).(72) Inventor; and  
(75) Inventor/Applicant (for US only): BRUNHAM, Robert, C. [CA/CA]; 620 West 17th Avenue, Vancouver, British Columbia V5Z 1T8 (CA).

(74) Agent: STEWART, Michael, I.; Sim &amp; McBurney, 6th Floor, 330 University Avenue, Toronto, Ontario M5G 1R7 (CA).

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(54) Title: DNA IMMUNIZATION AGAINST CHLAMYDIA INFECTION

(57) Abstract: Nucleic acid, including DNA, immunization is used to generate a protective immune response in a host, including humans, to a serine-threonine kinase (STK) of a strain of *Chlamydia*. A non-replicating vector, including a plasmid vector, contains a nucleotide sequence encoding an STK or a fragment of the STK that generates antibodies that specifically react with STK and a promoter sequence operatively coupled to the first nucleotide sequence for expression of the STK in the host. The non-replicating vector may be formulated with a pharmaceutically-acceptable carrier for *in vivo* administration to the host.